

Dr. Duke's Phytochemical and Ethnobotanical Database

Chemicals Found in *Cinnamomum verum*

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
38	(-)-EPICATECHIN	Bark	--	11	-1	
67	1,8-CINEOLE	Bark	165	800	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
67	1,8-CINEOLE	Leaf	--	110	-0.5160756691181793	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
67	1,8-CINEOLE	Essential Oil	--	--		
67	1,8-CINEOLE	Leaf Essent. Oil	1500	6000	-0.8066353382387724	
67	1,8-CINEOLE	Bark Essent. Oil	--	16500		
67	1,8-CINEOLE	Stem Bark	--	--		
67	1,8-CINEOLE	Root Bark	--	--		
2	3-PHENYL-PROPYL-ACETATE	Bark	13	52		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	ACETYL-EUGENOL	Root Bark	--	--		
5	ACETYL-EUGENOL	Leaf	--	--		Wealth of India.
2	ALPHA-HUMULENE	Leaf	--	55	-0.3746507691796979	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
2	ALPHA-HUMULENE	Leaf Essent. Oil	--	2000	-0.6471039886127844	
2	ALPHA-HUMULENE	Root Bark	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ALPHA-HUMULENE	Stem Bark	--	--		
11	ALPHA-PHELLANDRENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	ALPHA-PHELLANDRENE	Leaf Essent. Oil	--	--		
11	ALPHA-PHELLANDRENE	Root Bark	--	--		
11	ALPHA-PHELLANDRENE	Bark Essent. Oil	--	--		
11	ALPHA-PHELLANDRENE	Stem Bark	--	--		
28	ALPHA-PINENE	Bark	20	236	1	
28	ALPHA-PINENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
28	ALPHA-PINENE	Leaf Essent. Oil	--	2000	-0.7421534872468563	
28	ALPHA-PINENE	Root Bark	--	--		
28	ALPHA-PINENE	Bark Essent. Oil	--	2000		
28	ALPHA-PINENE	Stem Bark	--	--		
13	ALPHA-TERPINENE	Plant	42	168	-0.2484193652689688	
13	ALPHA-TERPINENE	Leaf	90	180	-0.21935005723158335	
13	ALPHA-TERPINENE	Root Bark	--	--		
13	ALPHA-TERPINENE	Leaf Essent. Oil	--	--		
13	ALPHA-TERPINENE	Bark Essent. Oil	--	--		
13	ALPHA-TERPINENE	Stem Bark	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
23	ALPHA-TERPINEOL	Bark	40	264		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	ALPHA-TERPINEOL	Leaf	--	47	-0.5077453073656415	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
23	ALPHA-TERPINEOL	Leaf Essent. Oil	--	1500	-0.8343397041375054	
23	ALPHA-TERPINEOL	Root Bark	--	--		
23	ALPHA-TERPINEOL	Bark Essent. Oil	--	--		
23	ALPHA-TERPINEOL	Stem Bark	--	--		
112	ASCORBIC-ACID	Bark	309	309	0.13185661758936892	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
24	BENZALDEHYDE	Plant	26	104	-0.260515026268546	
24	BENZALDEHYDE	Bark	26	104		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
24	BENZALDEHYDE	Bark Essent. Oil	--	--		
24	BENZALDEHYDE	Leaf Essent. Oil	--	7000	-1.4141473605881718	
24	BENZALDEHYDE	Stem Bark	--	--		
24	BENZALDEHYDE	Essential Oil	--	--		
24	BENZALDEHYDE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	BENZYL-ACETATE	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
9	BENZYL-ALCOHOL	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	BENZYL-ALCOHOL	Root Bark	--	--		
17	BENZYL-BENZOATE	Bark	66	400		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
17	BENZYL-BENZOATE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
17	BENZYL-BENZOATE	Essential Oil	--	--		
17	BENZYL-BENZOATE	Leaf Essent. Oil	26700	840000		
17	BENZYL-BENZOATE	Stem Bark	--	--		
17	BENZYL-BENZOATE	Root Bark	--	--		
53	BETA-CAROTENE	Bark	1	2	-0.7112344242846967	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	BETA-ELEMENE	Leaf	--	120	0.21030818830483441	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
3	BETA-PHELLANDRENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Bark	14	76	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	BETA-PINENE	Leaf	25	50	-0.355380082692983	
13	BETA-PINENE	Root Bark	--	--		
13	BETA-PINENE	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	BETA-PINENE	Stem Bark	--	--		
3	BETA-SELINENE	Plant	--	--		
3	BETA-SELINENE	Leaf	--	9.4	-0.43052685171982463	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
3	BETA-SELINENE	Leaf Essent. Oil	--	--		
3	BETA-SELINENE	Stem Bark	--	--		
47	BETA-SITOSTEROL	Bark	--	210	-0.604451419169448	
35	BORNEOL	Bark	2	8		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	BORNEOL	Leaf	--	9.4	-0.4638760763380464	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
35	BORNEOL	Root Bark	--	--		
12	BORNYL-ACETATE	Bark	10	20		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
4	BORON	Bark	7	15		Betting on Boron, Unpublished draft by J. A. Duke on file at USDA, draft and papers relating to boron percentages. Includes Internat. Z. Vit. Ern. Forschung 43:1973 (boron).
102	CAFFEIC-ACID	Bark	--	6		
28	CALCIUM	Bark	3415	6000	-1.211233459152872	
4	CALCIUM-OXALATE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	CALCIUM-OXALATE	Bark	--	--		Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
2	CAMPESTEROL	Bark	--	30		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. <i>CRC Handbook of Lipids in Human Nutrition</i> . CRC Press. Boca Raton, FL. 233 pp.)
9	CAMPHENENE	Bark	18	72		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	CAMPHENENE	Leaf	20	40	-0.17757340583671746	
9	CAMPHENENE	Root Bark	--	--		
9	CAMPHENENE	Leaf Essent. Oil	--	--		
9	CAMPHENENE	Bark Essent. Oil	--	--		
9	CAMPHENENE	Stem Bark	--	--		
41	CAMPHOR	Plant	--	--		
41	CAMPHOR	Leaf	--	5	-0.24878995860316278	
41	CAMPHOR	Essential Oil	--	--		
41	CAMPHOR	Root Bark	--	--		
41	CAMPHOR	Bark Essent. Oil	--	--		
41	CAMPHOR	Stem Bark	--	--		
31	CARYOPHYLLENE	Bark	135	1316		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
31	CARYOPHYLLENE	Root Bark	--	--		
31	CARYOPHYLLENE	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	CARYOPHYLLENE-OXIDE	Plant	--	--		
8	CARYOPHYLLENE-OXIDE	Leaf	25	50	-0.238829216533009	
8	CARYOPHYLLENE-OXIDE	Root Bark	--	--		
1	CATECHINS	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
7	CHLORINE	Bark	300	300	1.316395066083648	
24	CHROMIUM	Bark	2	10	0.3702364708647218	
24	CHROMIUM	Leaf	14.4	14.4	0.5843111051219538	
60	CINNAMALDEHYDE	Bark	6000	30000	1	
60	CINNAMALDEHYDE	Root	--	--		
60	CINNAMALDEHYDE	Root Bark	--	--		
60	CINNAMALDEHYDE	Essential Oil	--	800000		
60	CINNAMALDEHYDE	Leaf Essent. Oil	9700	31000		
60	CINNAMALDEHYDE	Bark Essent. Oil	302000	765000		
60	CINNAMALDEHYDE	Stem Bark	--	--		
18	CINNAMIC-ACID	Bark	--	--		
1	CINNAMIC-ACID-ETHYL-ESTER	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
1	CINNAMIC-ACID-ETHYL-ESTER	Root Bark	--	--		
3	CINNAMIC-ALCOHOL	Leaf	45	90		
3	CINNAMIC-ALCOHOL	Bark	--	--		
3	CINNAMYL-ACETATE	Bark	175	2040		
3	CINNAMYL-ACETATE	Leaf	--	--		Wealth of India.
3	CINNAMYL-ACETATE	Leaf Essent. Oil	--	--		
6	CINNAMYL-ALCOHOL	Bark	26	104		
6	CINNAMYL-ALCOHOL	Bark Essent. Oil	--	--		
6	CINNAMYL-ALCOHOL	Leaf Essent. Oil	--	6000		
6	CINNAMYL-ALCOHOL	Root Bark	--	--		
6	CINNAMYL-ALCOHOL	Stem Bark	--	--		
6	CINNAMYL-ALCOHOL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	CIS-OCIMENE	Bark	3	12		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	CIS-OCIMENE	Root Bark	--	--		
20	CITRONELLAL	Leaf	--	185	-0.3689303556693406	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
2	COBALT	Bark	0.6	0.6	-0.535830732109577	
2	COBALT	Leaf	1.1	1.1	-0.29234734921022576	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
12	COPPER	Bark	4.9	9	1.2694908990840155	
12	COPPER	Leaf	10.9	10.9	-0.4611536397349287	
57	COUMARIN	Bark	--	--		
57	COUMARIN	Leaf Essent. Oil	--	--		
57	COUMARIN	Stem Bark	--	--		
1	CUMENE	Bark	66	264		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	CUMINALDEHYDE	Bark	4	100		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
10	CUMINALDEHYDE	Leaf	--	9.4	-0.8992455208553981	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
10	CUMINALDEHYDE	Root Bark	--	--		
10	CUMINALDEHYDE	Bark Essent. Oil	--	2500		
10	CUMINALDEHYDE	Stem Bark	--	--		
8	DELTA-3-CARENE	Bark	3	12		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
8	DELTA-3-CARENE	Leaf	--	9.4	-0.3342459761013801	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
12	ESTRAGOLE	Root Bark	--	--		
2	ETHYL-CINNAMATE	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
2	ETHYL-CINNAMATE	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
76	EUGENOL	Bark	140	3520	1.4140777354335337	
76	EUGENOL	Leaf	1400	16800	1.1576225529193598	Wealth of India.
76	EUGENOL	Essential Oil	--	--		
76	EUGENOL	Leaf Essent. Oil	701000	945000	1.556183816708286	
76	EUGENOL	Bark Essent. Oil	61000	420000		
76	EUGENOL	Stem Bark	--	--		
76	EUGENOL	Root Bark	--	--		
1	EUGENOL-ACETATE	Plant	--	--		
1	EUGENOL-ACETATE	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
1	EUGENOL-ACETATE	Essential Oil	--	--		
1	EUGENOL-ACETATE	Leaf Essent. Oil	--	10000	1	
1	EUGENOL-ACETATE	Stem Bark	--	--		
1	EUGENOL-ACETATE	Root Bark	--	--		
5	EUGENOL-METHYL-ETHER	Leaf Essent. Oil	--	--		
5	EUGENOL-METHYL-ETHER	Stem Bark	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	EUGENYL-ACETATE	Leaf	--	1340		Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
17	FARNESOL	Bark	3	12		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
17	FARNESOL	Leaf Essent. Oil	--	--		
17	FARNESOL	Stem Bark	--	--		
6	FENCHONE	Plant	--	--		
6	FENCHONE	Root Bark	--	--		
15	FIBER	Bark	270000	285000	1.2185093685993307	
6	FURFURAL	Bark	3	12		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
6	FURFURAL	Root Bark	--	--		
11	GAMMA-TERPINENE	Bark	3	12		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
11	GAMMA-TERPINENE	Leaf	--	9.4	-0.35379884600546213	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
11	GAMMA-TERPINENE	Root Bark	--	--		
11	GAMMA-TERPINENE	Stem Bark	--	--		
13	GERANIAL	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
13	GERANIAL	Leaf Essent. Oil	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
13	GERANIAL	Stem Bark	--	--		
35	GERANIOL	Bark	6	24	1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
35	GERANIOL	Leaf Essent. Oil	--	--		
35	GERANIOL	Root Bark	--	--		
35	GERANIOL	Stem Bark	--	--		
5	GERANYL-ACETATE	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
3	HEXANOL	Plant	--	--		
2	HUMULENE	Bark	20	124		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
12	IODINE	Bark	3	3	1	
6	IRON	Bark	60	421	0.988562022605988	
1	ISOCARYOPHYLLENE	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	ISOEUGENOL	Bark	2	8		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
16	ISOEUGENOL	Leaf Essent. Oil	--	--		
16	ISOEUGENOL	Stem Bark	--	--		
7	LAURIC-ACID	Seed	260000	304000	2.213931627618294	Wealth of India.
60	LIMONENE	Bark	46	184	-1	Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
60	LIMONENE	Root Bark	--	--		
60	LIMONENE	Leaf Essent. Oil	--	--		
60	LIMONENE	Bark Essent. Oil	--	--		
60	LIMONENE	Stem Bark	--	--		
53	LINALOOL	Bark	85	956	1.252021111601008	
53	LINALOOL	Leaf Essent. Oil	--	15000	-0.6008669130496045	
53	LINALOOL	Twig	--	--		
53	LINALOOL	Root Bark	--	--		
53	LINALOOL	Bark Essent. Oil	--	23000		
53	LINALOOL	Stem Bark	--	--		
53	LINALOOL	Leaf	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	LINALYL-ACETATE	Bark	--	--		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
7	LINALYL-ACETATE	Leaf	--	245	-0.4688164226239724	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
14	MANGANESE	Bark	66	140	0.2600672069684909	
14	MANGANESE	Leaf	101.6	101.6	-0.29098010466671564	
18	MANNITOL	Plant	--	--		
6	METHYL-CHAVICOL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
6	METHYL-CHAVICOL	Leaf	--	9.4	-0.7007235462901639	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
5	METHYL-CINNAMATE	Plant	--	--		
5	METHYL-CINNAMATE	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
20	METHYL-EUGENOL	Bark	--	--		Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
20	METHYL-EUGENOL	Leaf	--	--		Wealth of India.
2	METHYL-N-AMYLKETONE	Plant	--	--		
3	MUCILAGE	Bark	20000	37000	-1	
22	MYRCENE	Bark	5	20		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
22	MYRCENE	Leaf	--	42	-0.15751973810789113	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
22	MYRCENE	Root Bark	--	--		
6	MYRISTIC-ACID	Seed	21900	25550	0.03846837905572463	Wealth of India.
2	N-OCTANAL	Leaf	--	9.4		Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
10	NEROL	Plant	--	--		

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
10	NEROL	Leaf	--	120	0.11698444324247205	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. <i>Flav. & Fragr. J.</i> , 10: 239-242.
10	NEROL	Leaf Essent. Oil	--	--		
10	NEROL	Stem Bark	--	--		
39	NIACIN	Bark	8	8	-0.8750524278110635	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
3	NICKEL	Bark	1.1	1.1		
3	NICKEL	Leaf	4.2	4.2	-0.34807849536720104	
6	O-METHOXYCINNAMALDEHYDE	Bark	--	--		
18	OLEIC-ACID	Seed	11400	13300	-0.8697664023682266	Wealth of India.
25	OPCS	Bark	--	--		
9	OXALIC-ACID	Bark	--	--		
25	P-COUMARIC-ACID	Bark	--	14		
16	P-CYMENE	Bark	39	448		
16	P-CYMENE	Leaf	55	140	-0.2838019346125363	
16	P-CYMENE	Leaf Essent. Oil	--	--		
16	P-CYMENE	Root Bark	--	--		
16	P-CYMENE	Bark Essent. Oil	--	5500		
16	P-CYMENE	Stem Bark	--	--		
13	PALMITIC-ACID	Seed	5400	6300	-0.569611607827188	Wealth of India.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
4	PHELLANDRENE	Bark	63	252		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
26	PHENOL	Plant	--	--		
26	PHENOL	Root Bark	--	--		
4	PHOSPHORUS	Bark	674	1100	-0.09218371064072212	
2	PHYTOSTEROLS	Bark	--	260		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
7	PIPERITONE	Plant	7	28	-0.5360935285937307	
7	PIPERITONE	Bark	7	28		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
7	PIPERITONE	Leaf	--	14	-0.3496122197337039	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
7	PIPERITONE	Leaf Essent. Oil	--	1000		
7	PIPERITONE	Root Bark	--	--		
7	PIPERITONE	Bark Essent. Oil	--	--		
7	PIPERITONE	Stem Bark	--	--		
14	POTASSIUM	Bark	5525	6000	-0.0003604452787617535	
34	PROANTHOCYANIDINS	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
15	RIBOFLAVIN	Bark	1	1	-0.703764278443471	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
5	SABINENE	Bark	2	8		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
5	SABINENE	Root Bark	--	--		
5	SABINENE	Stem Bark	--	--		
29	SAFROLE	Plant	--	--		
29	SAFROLE	Leaf	--	--		Wealth of India.
29	SAFROLE	Bark	--	--		Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
29	SAFROLE	Leaf Essent. Oil	6500	23000		
29	SAFROLE	Bark Essent. Oil	--	--		
29	SAFROLE	Stem Bark	--	--		
29	SAFROLE	Root Bark	--	--		
7	SALICYLATES	Bark	--	150		
1	SODIUM	Bark	287	287	-0.13196665474928823	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
12	STIGMASTEROL	Bark	--	20		Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
14	SULFUR	Bark	1900	1900	1.6644794391276476	

Activity Count	Chemical	Plant Part	Low PPM	High PPM	StdDev	Reference Citation
35	TANNIN	Plant	--	--		
23	TERPINEN-4-OL	Bark	36	144		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
23	TERPINEN-4-OL	Leaf	580	1160	0.3220267983970355	
23	TERPINEN-4-OL	Root Bark	--	--		
23	TERPINEN-4-OL	Bark Essent. Oil	--	4000		
9	TERPINOLENE	Bark	11	44		Lawrence, B.M., Essential Oils 1976-1977, Essential Oils 1978, Essential Oils 1979-1980.
9	TERPINOLENE	Leaf	--	24	-0.2015216107735257	Mallavarupu, G. R. et al. 1995. Investigation of the essential oil of cinnamon leaf grown at Bangalore and Hyderabad. Flav. & Fragr. J., 10: 239-242.
9	TERPINOLENE	Root Bark	--	--		
31	THIAMIN	Bark	1	1	-0.0940720868383599	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
7	TRANS-CINNAMALDEHYDE	Leaf	60	335	-1	
7	TRANS-CINNAMALDEHYDE	Bark	2450	54000	1	
7	TRANS-CINNAMALDEHYDE	Bark Essent. Oil	--	470000		
28	VANILLIN	Plant	--	--		
28	VANILLIN	Stem Bark	--	--		
77	ZINC	Bark	11.4	20	0.6897954075604908	
77	ZINC	Leaf	34	34	-0.3181095027627891	